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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,074	09/18/2003	Roger P. Jackson	10,250	7659

7590 01/09/2006
John C. McMahon
PO Box 30069
Kansas City, MO 64112

EXAMINER

RAMANA, ANURADHA

ART UNIT	PAPER NUMBER
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3733

DATE MAILED: 01/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/666,074

Applicant(s)

JACKSON, ROGER P.

Examiner

Anu Ramana

Art Unit

3733

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2005.
 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 1-29 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☒ The drawing(s) filed on 9/18/03 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
 4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) ☐ Notice of Informal Patent Application (PTO-152)
 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

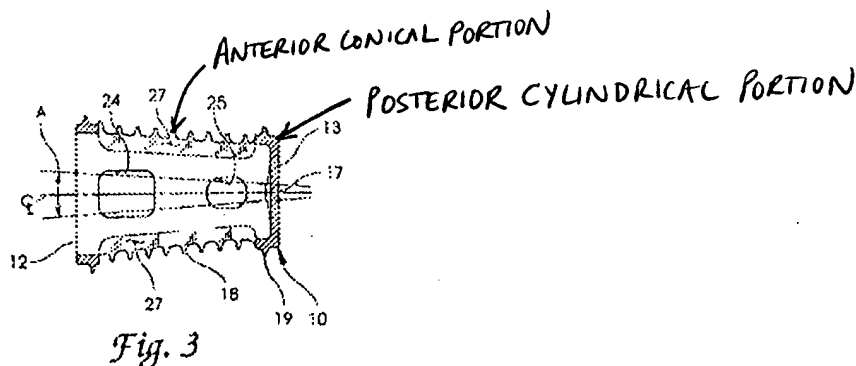
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-11, 13-19, 21-23, 26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Nolan (US 6,117,174).

Nolan discloses a spinal implant or “interbody spacer device” 2 including: an anterior conical portion; a posterior cylindrical portion joined to the conical portion at the converged end of the conical portion; and an engaging member or disc or “end cap member” or “stabilizing structure” 14’ (Figs. 6a, 11, 12 and 17, col. 1, lines 66-67, col. 2, lines 1-47, col. 4, lines 7-56 and col. 5, lines 12-35).

Claims 1-3, 8-10, 15-18, 23, 26 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Zdeblick et al. (US 5,669,909).

Zdeblick et al. disclose an interbody fusion device including an anterior conical portion, a posterior cylindrical portion joined to the anterior conical portion at the converged end of the conical portion and partial thread members extending radially outward from the conical and cylindrical portions (Figs. 3, 8A and 14(d), col. 5, lines 41-59 and col. 12, lines 21-34). See marked up Fig. 3 from Zdeblick et al. below.



Claims 24, 25, 27 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Shapiro et al. (US 6,436,139).

Shapiro et al. disclose a threaded interbody spacer 10 with opposite lateral concave surfaces and a helical thread wherein spacer 10 tapers from a smaller diameter at the insertion end to a larger diameter at the opposite end, thus having a "substantially funnel-shaped side profile" (Figs. 1, 7 and 8, col. 3, lines 26-67 and cols. 4-8).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-7, 11-14 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zdeblick et al. (US 5,669,909) in view of Foley et al. (US 6,576,017).

Zdeblick et al. disclose all elements of the claimed invention except for an end cap member or a stabilizing structure secured to the implant.

Foley et al. teach a ligament or "end cap member" or "stabilizing structure" that extends laterally from opposite sides of an implant and is secured to adjacent bony structures to resist expulsion of the implant from the intervertebral disc space (Fig. 5, col. 1, lines 57-61 and col. 3, lines 18-39).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided a stabilizing structure or end cap member, as taught by Foley et al., to secure the Zdeblick et al. implant to adjacent bony structures, to prevent expulsion of the implant of the combination of Zdeblick et al. and Foley et al. from intervertebral space.

Response to Arguments

Applicant's arguments submitted under "REMARKS" in the response filed on October 11, 2005 have been fully considered. Applicant's arguments with respect to claims 1-23, 26 and 28 are moot in view of the new grounds of rejection. Applicant's arguments with respect to claims 24, 25, 27 and 29 are not persuasive for the following reasons. Shapiro et al. disclose a threaded, tapered or "frustoconical" or "substantially funnel shaped" interbody spacer (see Fig. 9 and col. 7, lines 1-28).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anu Ramana whose telephone number is (571) 272-4718. The examiner can normally be reached Monday through Friday between 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached at (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AR *Anunadha Ramana*
December 29, 2005

Pedro Philo
PEDRO PHILOGEKE
PRIMARY EXAMINER